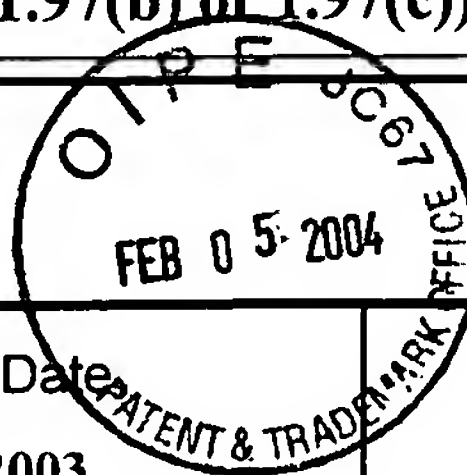


TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
LWEP:119US

In Re Application: Ralf KRUEGER



Serial No.

10/605,492

Filing Date

10/02/2003

Examiner

N/A

Group Art Unit

2872

**PHASE SHIFT METHOD AND APPARATUS FOR IMPLEMENTING PHASE-SHIFT CONTRAST
OR MODULATION-CONTRAST OBSERVATION ON MICROSCOPES**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
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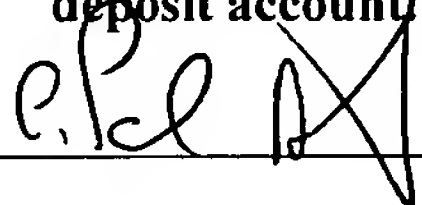
I certify that this document and fee is being deposited on February 3, 2004 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


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C. Paul Maliszewski

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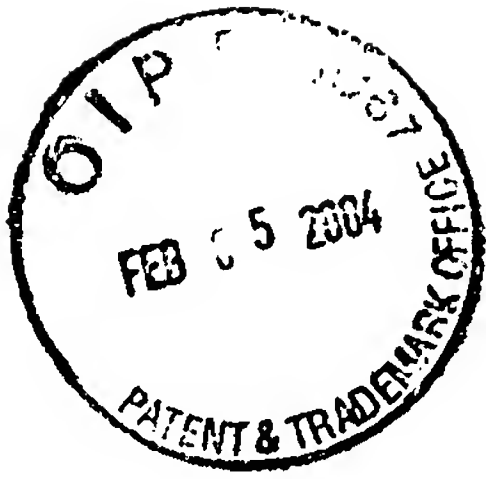

Signature

Dated: February 3, 2004

C. Paul Maliszewski
Registration No. 51,990
CUSTOMER NO. 24041
Simpson & Simpson, PLLC
5555 Main Street
Williamsville, NY 14221-5406
Telephone: 716-626-1564
CPM

cc:

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))			Docket No. LWEP:119US	
In Re Application Of: 5 2004 KRUEGER				
Serial No. 10/605,492	Filing Date 10/02/2003	Examiner N/A	Group Art Unit 2872	
Title: PHASE SHIFT METHOD AND APPARATUS FOR IMPLEMENTING PHASE-SHIFT CONTRAST OR MODULATION-CONTRAST OBSERVATION ON MICROSCOPES				
<div style="text-align: center;"> <p>Address to:</p> <p>Commissioner for Patents</p> <p>P.O. Box 1450</p> <p>Alexandria, VA 22313-1450</p> </div> <div style="text-align: center; margin-top: 10px;"> <p>37 CFR 1.97(b)</p> </div> <p>1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.</p> <div style="text-align: center; margin-top: 20px;"> <p>37 CFR 1.97(c)</p> </div> <p>2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:</p> <div style="margin-left: 40px; margin-top: 10px;"> <p><input type="checkbox"/> the statement specified in 37 CFR 1.97(e);</p> <p style="text-align: center; margin-top: 10px;">OR</p> <p><input type="checkbox"/> the fee set forth in 37 CFR 1.17(p).</p> </div>				



**U.S. UTILITY PATENT APPLICATION
ATTORNEY DOCKET NO. 294.LWEP:119US**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Matter of United States Patent Application:

Applicant(s): Ralf KRUEGER

Examiner: N/A

Application No.: 10/605,492

Art Unit: 2872

Filed: 10/02/2003

For: **PHASE SHIFT METHOD AND APPARATUS FOR
IMPLEMENTING PHASE-CONTRAST OR MODULATION-CONTRAST
OBSERVATION ON MICROSCOPES**

Certificate of Mailing by First Class Mail

I certify that this Information Disclosure Statement is being deposited on Feb. 3, 2004 with the U.S. Postal Service as first class mail under 37 C.F.R. §1.8 and is addressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

C. Paul Maliszewski
Regis. No. 51,990

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Honorable Sir:

This Information Disclosure Statement is submitted in compliance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98.

Record is attached of published art for consideration during prosecution of the above-identified patent application. No representation is made or intended that a search has been made

or, if made, was complete, or that no more pertinent art than that listed is available. It is expected that the Patent and Trademark Office will conduct an independent search for relevant prior art.

Unless otherwise indicated, or unless references cited are U.S. patents or patent application publications, a full text copy of the entire reference of published art is attached. Where specifically indicated, an equivalent English language patent or publication is attached in lieu of the translation.

Also, according to 1.98(a)(3)(i), a concise explanation is listed below, as it is presently understood, of each foreign patent document not in the English language.

Please consider the following published art:

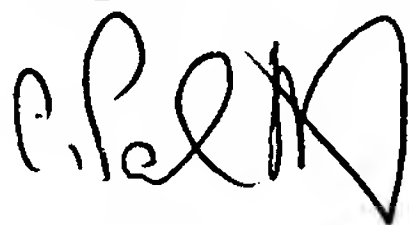
German Patent No. DE2523464 (Hoffman) 03/18/1976 is cited. According to the invention there is provided an optical system particularly adapted for use in microscopy and useful for viewing phase objects with the aid of a light beam, comprising: (a) means including an objective and a condenser lens in an optical path for focusing said light beam at a predetermined plane in said optical path, said object located between said objective and condenser lenses in said optical path, with said predetermined plane manifesting a Fourier transform plane whereby the spatial frequencies of said object as well as the maximum energy for each point on said object's gradient are distributed, (b) means having a first specific density region and at least a second immediately adjacent region of a substantially different intensity whereby there is an abrupt change in density between said adjacent regions, located at said predetermined plane causing modifications by said means of the amplitude of said light beam relatively about said first region in both a greater and lesser intensity, and (c) an illumination source positioned in a plane

conjugate to said predetermined plane for illuminating said object, said illumination source comprising a lamp assembly of the type having a relatively planar filament arrangement to provide an illumination pattern capable of being registered at said first region of said means,

The invention overcomes the limitations of the phase contrast microscope and the interference microscope. Objects are rendered visible in a simpler manner, utilizing less expensive components. To accomplish this, the invention, an apparatus for examining microscopic transparent objects, consists of a compound microscope wherein the object is illuminated with a controlled beam of light. Further means are included for selectively modulating the amplitude of portions of this beam after it has passed through the object. The beams subsequently combine to interfere in the image whereon phase gradients in the object are rendered visible.

In accordance with the Patent and Trademark Office Notice of August 15, 1980, also enclosed is a completed Form PTO-A820 (Form PTO-1449).

Respectfully submitted,



C. Paul Maliszewski
Registration No. 51,990
Agent for Applicant
Simpson & Simpson, PLLC
5555 Main Street
Williamsville, NY 14221-5406
Telephone No. 716-626-1564

Dated: February 3, 2004

CPM
Enclosures (3)